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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,456	10/19/2005	Roy G. Gordon	42697.147 US2	5616
23483 WILMERHALI	7590 01/06/200 E/BOSTON	EXAMINER		
60 STATE STR	 _	WU, SHEAN CHIU		
BOSTON, MA 02109			ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			01/06/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/520,456	GORDON ET AL.		
Office Action Summary	Examiner	Art Unit		
	Shean C. Wu	1795		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MERICAL STATE AND	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 12 No. This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 24-28,33-40,42,45-60 and 72 is/are p 4a) Of the above claim(s) 24-28,33-40,42 and 4 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 59-60 and 72 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 24-28,33-40,42,45-60 and 72 are sub	45-58 is/are withdrawn from cons			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 59 and 72 are rejected under 35 U.S.C. 102(b) as being anticipated by Sun et al. (US 6,114,242 or US 6,359,160).

The reference discloses the formation of molybdenum nitride (MoN) film by chemical vapor deposition, which involves flowing a precursor bisdiethylamido-bistertbutylimido-molybdenum (BDBTM) gaseous compound in a deposition chamber.

$$E t_{2} N_{1} N_{0} t_{Bu}$$

$$E t_{2} N_{1} N_{0} t_{Bu}$$

$$E t_{2} N_{1} CH_{3} CH_{2}$$

$$-NE t_{2} = -N_{1} CH_{3} CH_{2}$$

$$CH_{3} CH_{2}$$

$$CH_{3} CH_{2}$$

$$CH_{3} CH_{3}$$

$$CH_{3} CH_{3}$$

The references clearly anticipate the claimed compound.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 60 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sun et al. (US 6,114,242 or US 6,359,160).

The reference differs from the present invention in that the metal of the present formula is Mo instead of W. Because Mo and W are functional equivalent, the same group of the transition metal, therefore, it would have been obvious to those skilled in the art by use of analogous compounds with tungsten in place of **molybdenum** to arrive at the claimed compound. Also, see lines 18-19 on page 7 of the present specification.

Claim Rejections - 35 USC § 112

5. Claims 59-60 and 72 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. There are guidelines in the specification to teach how one ordinary skilled in the art to prepare the compounds those are not excluded in the claims. Those excluded compounds are preferable compounds in the present invention.

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Response to Arguments

6. Applicant's arguments, see the Remarks, filed 11/12/08, with respect to the rejection in the previous Office action have been fully considered and are persuasive. Therefore, the

rejection of EP '595 has been withdrawn. However, upon further consideration, new grounds of

rejection are made in the paragraphs 2, 4 and 5 above.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The

examiner can normally be reached on 10:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kelly Cynthia can be reached on 571-272-1526. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shean C Wu/

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Primary Examiner, Art Unit 1795

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